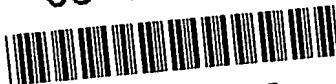


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OMB No. 0651-0027 (exp. 5/31/2002)

U.S. Department of Commerce
Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Martin M. Deneroff

2. Name and address of receiving party(ies):

Name: Silicon Graphics, Inc.

Internal Address:

Street Address:

1600 Amphitheatre Parkway

City: Mountain View State: CA Zip Code: 94043-1351

Country: USA

Additional name(s) & address(es) attached? ☐ yes ☒ noAdditional name(s) of conveying party(ies) attached? ☐ yes ☒ no

3. Nature of Conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: February 28, 2002

4. Application number(s) or patent number(s):

10084088

If this document is being filed together with a new application, the execution date of the application is
February 28, 2002

A. Patent Application No(s).

B. Patent No(s).

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Additional numbers attached? ☐ yes ☒ no

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Sterne, Kessler, Goldstein & Fox P.L.L.C.

Internal Address: c/o Patrick E. Garrett
 1100 New York Avenue, N.W.
 Washington, D.C. 20005-3934

Street Address: 1100 New York Ave., N.W.
 Suite 600

City: Washington State: D.C. Zip Code: 20005-3934

6. Total number of applications and patents involved: 17. Total fee (37 C.F.R. § 3.41).....\$ 40.00☒ Enclosed☐ Authorized to be charged to Deposit Account

8. Deposit Account Number:

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Patrick E. Garrett
 Name of Person Signing
 Registration No. 39,987

Signature

Date

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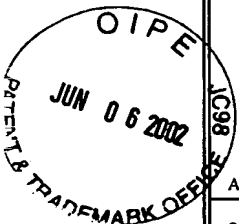
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RECORDATION DATE: 02/28/2002

REEL/FRAME: 012642/0630
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
DENEROFF, MARTIN M.

DOC DATE: 02/28/2002

ASSIGNEE:
SILICON GRAPHICS, INC.
1600 AMPHITHEATRE PARKWAY
MOUNTAIN VIEW, CALIFORNIA
94043-
1351

SERIAL NUMBER: 10084088
PATENT NUMBER:

FILING DATE: 02/28/2002
ISSUE DATE:

PAULA MCCRAY, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

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Certificate Under 37 C.F.R. § 3.73(b)

Applicant/Patent Owner: Silicon Graphics, Inc.

Application No./Patent No.: 10/084,088

Filed/Issue Date: February 28, 2002

Entitled: Method and System for Cache Coherence in DSM Multiprocessor System Without Growth of the Sharing Vector

Silicon Graphics, Inc.

(Name of Assignee)

, a Corporation

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest, or
2. ☐ an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

- A. ☒ An Assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel 012642, Frame 0630, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s) of the patent application/patent identified above to the current assignee as shown below:

1. From: _____ To: _____
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☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (*i.e.*, the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8]

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

Date: May 21, 2002

Name: Barry J. Weinert

Title: Assistant Secretary

Signature: Barry J. Weinert

FEB. 27. 2002 5:29PM

SKG&F3712540

NO. 1945 P. 2/73- - -

ASSIGNMENT

Docket No. 1452.3730000

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): Martin M. Deneroff, the undersigned inventor(s) hereby sell(s) and assign(s) to Silicon Graphics, Inc. (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages:

check applicable box(es) ☒ for the United States of America (as defined in 35 U.S.C. § 100),
☒ and throughout the world.

(a) in the invention(s) known as Method and System for Cache Coherence in DSM Multiprocessor System without Growth of the Sharing Vector

for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 02/23/02 (also known as United States Application No. To be Assigned, filed To be Filed), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor, and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

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NO. 1945 P. 3/73

The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventor(s) hereby grant(s) Douglas J. Crisman, Esquire, Registration No. 39, 951 of Silicon Graphics, Inc. 1600 Amphitheatre Parkway, Mountain View, CA 94043; Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; Steven R. Ludwig, Esquire, Registration No. 36,203; John M. Covert, Esquire, Registration No. 38,759; Linda E. Alcorn, Esquire, Registration No. 39,588; Lawrence B. Bugaisky, Esquire, Registration No. 35,086; Donald J. Featherstone, Esquire, Registration No. 33,876; and Robert C. Millonig, Esquire, Registration No. 34,395, all of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date: February 28, 2002 Signature of Inventor: Martin M. Deneroff
Martin M. DENEROFF